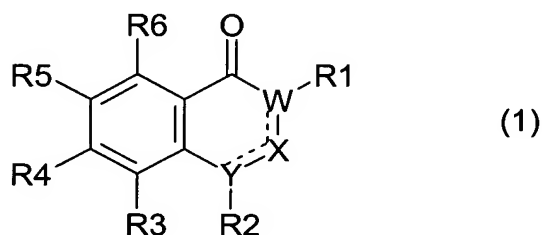


This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) Compounds A compound of general formula (I):



in which wherein

- R<sup>1</sup> (a) is an acyl group -CO-R<sub>11</sub> or CN, ~~whereby~~ wherein R<sub>11</sub> is a saturated, unsaturated, cyclic and/or (hetero)aromatic organic radical, ~~especially~~ a straight or branched alkyl chain with 1-10 C atoms or a phenyl, furan or thiophene group that is optionally substituted by at least one alkyl groups group or halogen atoms atom,
- b) is a carboxylic acid ester group -CO-OR<sub>12</sub> or a carboxylic acid amide group -CO-NR<sub>12</sub>R<sub>13</sub> or a group -SO<sub>x</sub>-R<sub>12</sub> with X = 0, 1 or 2 or -SO<sub>2</sub>-NR<sub>12</sub>R<sub>13</sub>, ~~whereby~~ wherein R<sub>12</sub> is a saturated, unsaturated, cyclic and/or (hetero)aromatic organic radical, ~~especially~~ a straight or branched alkyl chain with 1-10 C atoms, an aralkyl group with 7-20 C atoms, ~~whereby~~ wherein the aryl radical optionally can be substituted by alkyl groups or halogen atoms or is a phenyl radical that is optionally substituted by alkyl groups or halogen atoms, and R<sub>13</sub> can be a hydrogen atom or a straight or branched alkyl chain with 1-10 C atoms,

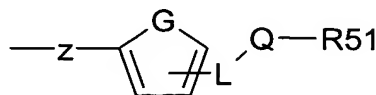
or

(c) is the group -A-NR<sub>14</sub>-CO-NR<sub>15</sub>R<sub>16</sub>, in which A is an alkylene group with 1-4 C atoms, ~~especially with 1 C atom~~, that is optionally substituted by a C<sub>1</sub>-C<sub>6</sub> alkyl group, a carbonyl group, an oxygen atom or the group -SO<sub>x</sub>- with X = 0, 1 or 2; R<sub>14</sub> and R<sub>15</sub>, in each case independently are a hydrogen atom or a straight or branched alkyl chain with 1-10 C atoms, and R<sub>16</sub> is a straight or branched alkyl chain with 1-10 C atoms, a cycloalkyl group with 3-10 C atoms, a cycloalkylalkyl group with 7-20 C atoms, an aralkyl group with 7-20 C atoms, ~~whereby~~ wherein the aryl radical optionally can be substituted by alkyl groups or halogen atoms, a phenyl group that is optionally substituted by alkyl groups or halogen atoms or a heterocyclic ring that is optionally substituted by alkyl groups or halogen atoms,

R<sub>2</sub> is a group -CH(R<sub>21</sub>)R<sub>22</sub>, whereby R<sub>21</sub> is a hydrogen atom, a C<sub>1</sub>-C<sub>10</sub>-alkyl group or an optionally substituted phenyl ring and R<sub>22</sub> is an optionally substituted phenyl ring or naphthyl ring, or a group -CH<sub>2</sub>CH(R<sub>23</sub>)R<sub>24</sub>, with R<sub>23</sub> and R<sub>24</sub> in the meaning of an optionally substituted phenyl ring,

R<sub>3</sub> and R<sub>4</sub> in each case independently are a hydrogen atom or an alkyl group with 1-10 C atoms and R<sub>3</sub> also can be a halogen atom,

R<sub>5</sub> is a group that is linked via radical Z,

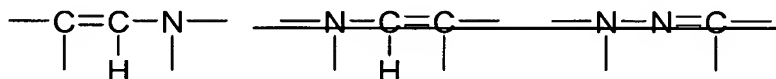


in which G is -C=C-, -C=N-, -N=C-, an oxygen or sulfur atom, Z is a direct bond, an oxygen atom or a sulfur atom, the group CH-R<sub>52</sub> or -CH-R<sub>52</sub>-CH-R<sub>53</sub>-, whereby R<sub>52</sub> and R<sub>53</sub>, independently of one another, have the meaning

of a hydrogen atom or an alkyl group and n means numbers 1 and 2, a  $-C\equiv C-$  triple bond or an E- or Z-configured group  $-CR_{52}=CR_{53}-$  or  $C=CR_{52}R_{53}$ , whereby  $R_{52}$  and  $R_{53}$ , independently of one another, have the meaning of a hydrogen atom or an alkyl group, L is a  $CH_2$  group or an NH group, Q is a carbonyl group or  $-SO_x$  group, with  $X = 0, 1$  or  $2$ , and  $R_{51}$  is an amino group that is optionally substituted by an alkyl group, or a straight or branched alkyl group that is optionally substituted by halogen atoms, hydroxyl or alkoxy groups, or a cycloalkyl group with 3-7 ring members that is optionally substituted by halogen atoms, hydroxyl or alkoxy groups,

R6 is the group  $CH_2-N(R_{61})R_{62}$ , whereby  $R_{61}$ , in each case independently, is a hydrogen atom or an alkyl group, and  $R_{62}$  is an alkyl group or an optionally substituted aralkyl group or a heteroarylalkyl group with 7-20 C atoms, and can mean

$-W=X=Y--$  is the groups group



in any orientation; ~~also all stereoisomers of the~~ and a stereoisomer of any of the above-mentioned structures, and ~~salts~~ a salt thereof with a physiologically compatible ~~acids or bases~~ acid or base.

2. (Canceled)

3. (Currently Amended) Compounds A compound according to claim 1, wherein R1 is the group -CO-R11, wherein R11 is methyl, ethyl, i-propyl, phenyl, 2-thienyl or 2-furyl.

4. (Canceled)

5. (Currently Amended) Compounds A compound according to claim 1, wherein R1 is the group -CO-OR12, wherein R12 is methyl, ethyl or i-propyl.

6. (Canceled)

7. (Currently Amended) Compounds A compound according to claim 1, wherein R2 is a 2',5'-difluorobenzyl group.

8. (Currently Amended) Compounds A compound according to claim 1, wherein R3 and R4 are hydrogen atoms.

9. (Currently Amended) Compounds A compound according to claim 1, wherein Z is a direct bond or an oxygen atom.

10. (Currently Amended) Compounds A compound according to claim 1, wherein G is - C = C -.

11. (Currently Amended) Compounds A compound according to claim 1, wherein L is an NH group.

12. (Currently Amended) Compounds A compound according to claim 1, wherein Q is a carbonyl group, and R51 is a C<sub>1</sub>-C<sub>6</sub> alkyl group.

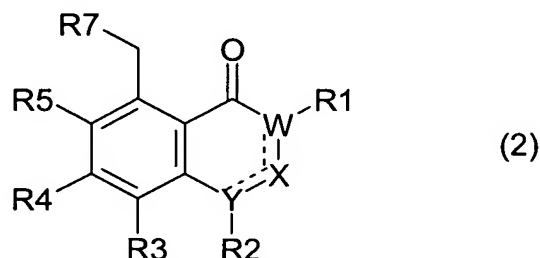
13. (Currently Amended) Compounds A compound according to claim 1, wherein R61 is a hydrogen atom or a methyl group and/or R62 is a benzyl group.

14. (Currently Amended) ~~Use of compounds according to claim 1 as antagonists~~  
An antagonist of the gonadotropin-releasing hormone (GnRH), comprising a compound according to claim 1.

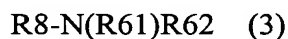
15. (Currently Amended) ~~Use according to claim 14~~ A method for male birth control, for hormone therapy, for treating female subfertility and infertility, for female contraception and to combat tumors, comprising administering an effective amount of a compound according to claim 1, a stereoisomer or a salt thereof, to a patient in need thereof.

~~16.~~ (Currently Amended) ~~Process~~ A process for the production of compounds of general formula (1) according to claim 1, comprising:

(a) ~~By reaction of~~ reacting a compound of ~~general~~ formula (2)

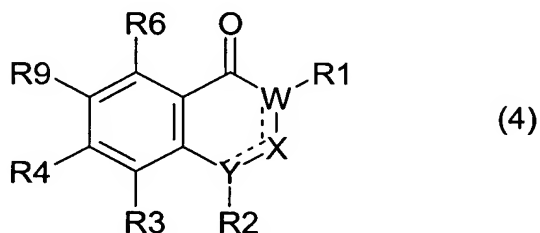


~~whereby~~ wherein R7 means a leaving group, ~~and all other radicals have the meaning that is indicated in compound (1),~~ with a compound of general formula (3)

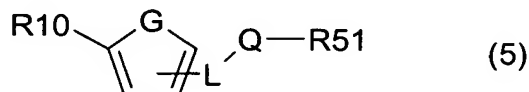


~~whereby~~ wherein R8 means a hydrogen atom or a metal atom, ~~and R61 and R62 have the meanings that are indicated in compound (1),~~

(b) ~~By reaction of~~ reacting a compound of general formula (4)



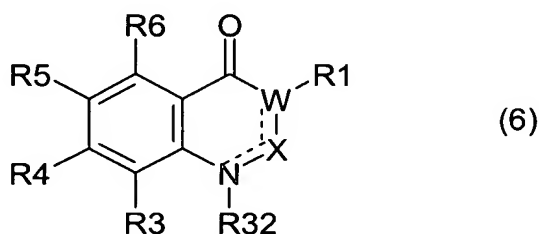
~~in which~~ wherein R9 is the group  $-OSO_2C_nF_{2n+1}$ , a halogen atom, ~~especially a bromine or iodine atom,~~ or another leaving group, ~~and all other radicals have the meaning that is indicated in compound (1),~~ with a compound of general formula (5)



~~whereby~~ wherein R10 is a group that contains a metal or a non-metal, a hydroxy or mercapto group that is optionally converted into a metal salt; the

group  $-C \equiv C-R_{31}$  or an E- or Z-configured group  $-CR_{52} = CR_{53}R_{31}$  or  $-CR_{31} = CR_{52}R_{53}$ , in which  $R_{31}$  is a group that contains a metal or a non-metal, ~~and all other radicals have the meaning that is indicated in compound (1)~~, with or without the involvement of a catalyst;

- (c) If wherein if Y is a nitrogen atom in compound (1), ~~by reaction of~~ reacting a compound of ~~general~~ formula (6)

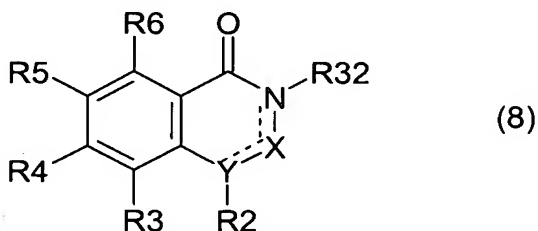


~~whereby~~ wherein  $R_{32}$  means a hydrogen atom or a metal atom, ~~and all other radicals have the meaning that is indicated in compound (1)~~, with a compound of ~~general~~ formula (7)



~~whereby~~ wherein  $R_{33}$  means a leaving group, and  $R_2$  ~~has the meaning that is indicated in compound (1)~~, or

- (d) If if W in compound (1) is a nitrogen atom, ~~by reaction of~~ reacting a compound of ~~general~~ formula (8)



~~whereby~~ wherein R32 means a hydrogen atom or a metal atom, ~~and all other radicals have the meaning that is indicated in compound (1),~~ with a compound of general formula (9)



~~whereby~~ wherein R33 means a leaving group, ~~and R1 has the meaning that is indicated in compound (1).~~

17. (New) A compound according to claim 1, wherein R1 is a phenyl, furan, or thiophene group that is optionally substituted by alkyl groups or halogen atoms.

18. (New) A compound according to claim 1, wherein R16 is pyridin-2-yl.

19. (New) A compound according to claim 1, wherein R2 is a phenyl ring optionally substituted by fluoro.

20. (New) A compound according to claim 1, wherein R2 is 2-fluorophenyl.

21. (New) A composition comprising a compound according to claim 1, a stereoisomer, or a salt thereof, and a pharmaceutically acceptable carrier.

22. (New) A compound according to claim 1, wherein A is methylene.



23. (New) A compound according to claim 1, wherein R<sup>1</sup> is a methyl, ethyl, n-propyl, iso-propyl, n-, iso-, tert-butyl, n-pentyl, 2,2-dimethylpropyl or 3-methylbutyl group; an n-hexyl, n-heptyl, n-octyl, n-nonyl, n-decyl group; a phenyl group; an o-, m-, p-methyl, ethyl, propyl, or isopropylphenyl group; a 2,3-, 2,4-, 2,5-, 2,6-, 3,4-, 3,5-dimethyl or -diethylphenyl group; an o-, m-, p-fluoro-, chloro-, bromo- or iodophenyl group; a 2,3-, 2,4-, 2,5-, 2,6-, 3,4-, 3,5-, difluoro-, dichloro-, dibromo- or diiodophenyl group or a naphthyl group; an unsubstituted 2- or 3-thienyl group; or a 2- or 3-furyl group; a 3-methyl-, 3-ethyl-, 3-fluoro-, 3-chloro-, 3-bromo-, 3-iodo-2-furyl- or -2-thienyl group; a 4-methyl-, 4-ethyl-, 4-fluoro-, 4-chloro-, 4-bromo-, 4-iodo-2-furyl- or 2-thienyl group; a 5-methyl-, 5-ethyl-, 5-fluoro-, 5-chloro-, 5-bromo-, 5-iodo-2-furyl or -2-thienyl group; a 2-methyl-, 2-ethyl-, 2-fluoro-, 2-chloro-, 2-bromo-, 2-iodo-3-furyl or -3-thienyl group; a 4-methyl-, 4-ethyl-, 4-fluoro-, 4-chloro-, 4-bromo-, 4-iodo-3-furyl- or -3-thienyl group; a 5-methyl-, 5-ethyl-, 5-fluoro-, 5-chloro-, 5-bromo-, 5-iodo-3-furyl- or -3-thienyl group; an unsubstituted 2-, 3- or 4-pyridyl group or a 3-methyl-, 3-ethyl-, 3-fluoro-, 3-chloro-, 3-bromo-, 3-iodo-2-pyridyl group; a 4-methyl-, 4-ethyl-, 4-fluoro-, 4-chloro-, 5-bromo-, 4-iodo-2-pyridyl group; a 5-methyl-, 5-ethyl-, 5-fluoro-, 5-chloro-, 5-bromo-, 5-iodo-2-pyridyl group; a 2-methyl-, 2-ethyl-, 2-fluoro-, 2-chloro-, 2-bromo-, 2-iodo-3-pyridyl group; a 4-methyl-, 4-ethyl-, 4-fluoro-, 4-chloro-, 4-bromo-, 4-iodo-3-pyridyl group; a 5-methyl-, 5-ethyl-, 5-fluoro-, 5-chloro-, 5-bromo-, 5-iodo-3-pyridyl group; a 2-, 4-, 5-, 6-pyrimidinyl group; or a 3-, 4-, 5-, 6-pyridazinyl group or a 2- or 3-pyrazinyl group.